



# Launch Mission Execution Forecast

**Mission:** Falcon 9 K-MILSAT-1

**Issued:** 17 Jul 2020 / 0900L (1300Z)

**Valid:** 19 Jul 2020 / 1700 – 2055L (19/2100 – 20/0055Z)



**Forecast Discussion:** Deep easterly flow will continue across the Spaceport through early next week. Typically this pattern favors shower and thunderstorm development locally during the night and morning hours and inland during the afternoon, with a robust, westward-moving east coast sea breeze forcing afternoon thunderstorms to move away from the area. A disturbance moving through the flow will promote an increase in moisture on Saturday, bringing an enhanced threat for showers and thunderstorms. Moisture is expected to thin out behind this system on Sunday and Monday, with a corresponding decrease in the potential for late day showers and thunderstorms. The primary weather concerns for both launch day and the 24-hour delay day are the Cumulus Cloud Rule and the Surface Electric Field Rule.

Launch Day	Probability of Violating Weather Constraints							
	40%	Primary Concerns: Cumulus Cloud Rule, Surface Electric Field Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	Isol Showers / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	84°F / 77%	Cumulus	Scattered	2,500	10,000	Booster Recovery Weather:	Low
	Liftoff Winds (200’):	100° 10 - 15 mph					Solar Activity:	Low
24-Hour Delay	Probability of Violating Weather Constraints							
	30%	Primary Concerns: Cumulus Cloud Rule, Surface Electric Field Rule						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	Isol Showers / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	84°F / 73%	Cumulus	Scattered	3,000	8,000	Booster Recovery Weather:	Low
	Liftoff Winds (200’):	100° 10 - 15 mph					Solar Activity:	Low
<b>Note:</b> The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.								
Next Forecast Will Be Issued			18 Jul 2020					